Applied COMFORT

Applied Comfort Products Inc.
1210 Balmoral Road, Cambridge, Ontario, Canada, N1T 1A5

PACKAGED TERMINAL AIR CONDITIONER / HEAT PUMP

OWNER'S MANUAL

CALM INDUSTRY STANDARD 42" x 16" PTAC & PTHP

MODELS:

A42EC07KXXEXA10
A42HC07KXXEXA10
A42EC09KXXEXA70
A42HC09KXXEXA60
A42EC12KXXEXA60
A42HC12KXXEXA60
A42EC15KXXEXA10
A42HC15KXXEXA10
A42EC07RXXEXA10
A42HC07RXXEXA10
A42EC09RXXEXA10
A42HC09RXXEXA60
A42EC12RXXEXA60
A42HC12RXXEXA60
A42EC15RXXEXA10
A42EC15RXXEXA10

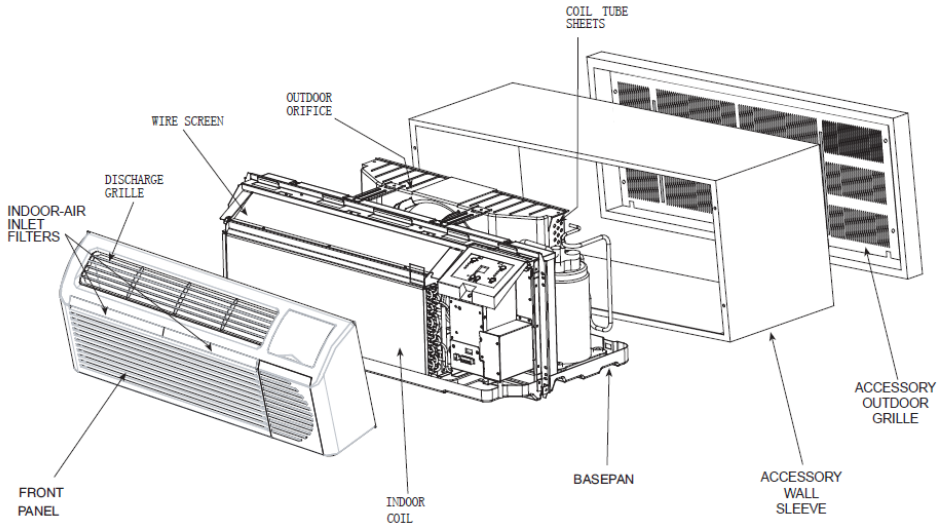

Fig. 4 – Unit Components

PLEASE READ THIS OWNERS MANUAL CAREFULLY BEFORE INSTALLING AND OPERATING THE UNIT.

KEEP THIS MANUAL FOR REFERENCE.

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1.0 SAFETY CONSIDERATIONS

Recognize safety information. This is the safety alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: DANGER, WARNING, and CAUTION. These words are used with the safety--alert symbol.

- **DANGER** identifies the most serious hazards which **will** result in severe personal injury or death.
- **WARNING** signifies hazards which **could** result in personal injury or death.
- **CAUTION** is used to identify unsafe practices which **may** result in minor personal injury or product and property damage.
- **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

⚠ WARNING

PERSONAL INJURY AND/OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death and/.or property damage.

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.

- This unit must be properly installed in accordance with the Installation Instructions before it is used.
- Immediately repair or replace all electric service cords that have become frayed or otherwise damaged.
- Unplug or disconnect the unit at the fuse box or circuit breaker before making any repairs.

NOTE: We strongly recommend that any servicing be performed by a qualified individual.

2.0 GENERAL INFORMATION

APPLIED COMFORT package terminal air conditioners and heat pumps provide a high standard of quality in performance, workmanship, durability and appearance, as they heat and cool the occupied air space year round. This manual provides information for ease of installation, operation and maintenance. All models are designed for through-the-wall installation. Separate installation instructions are included with all accessory components.

BEFORE YOU BEGIN

Read these instructions completely and carefully.

IMPORTANT: Save these instructions for local inspector's use.

IMPORTANT: Observe all governing codes and ordinances.

NOTE TO INSTALLER

Be sure to leave these instructions with the owner.

NOTE TO OWNER

Keep these instructions for future reference. Be sure to write down the model and serial number of unit on space provided on back page. The model and serial number can be located on the serial number plate attached to unit. These numbers are required for service.

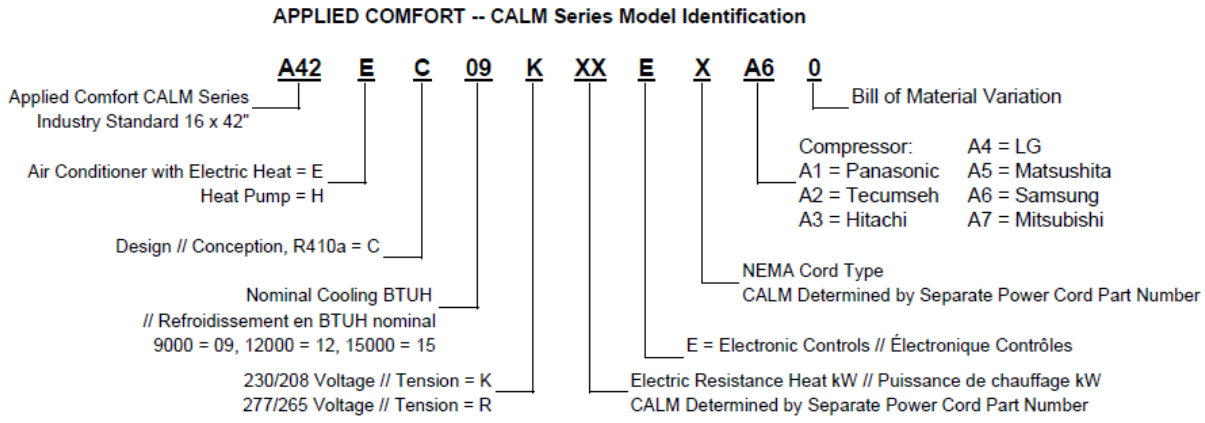
3.0 UNIT FEATURES

This Premium unit has many exciting features which are different than those found on standard PTAC models. The owner must be familiar with these features in order to fully understand the operation and capability of the unit.

• **Intelligence –** Your Premium unit has an on board computer that utilizes real time diagnostics to prolong the life of your unit. There is an LED indicator on the control board, behind the front panel, that will flash an error code if the unit has detected some kind of fault condition. In many cases, the unit will automatically clear the fault condition and continue operating with no interruption. In some cases, the condition cannot be cleared and the unit will require service. In those cases, an "Fx" failure mode will be displayed on the digital display. For a detailed list of all error codes and "Fx" conditions, see Table 6. -- *Status LED Indicator Definitions* for further details.
• **Memory** – Your Premium unit also has memory. If power is lost, all of the control settings (setpoint, mode, fan speed, on/off and configuration) are remembered. So when power is restored, the unit will start back up in the mode (and configuration) it was in, when power was lost.
• **Premium Sound** – The unit has 2 fan motors and a tangential blower wheel, optimized for quiet operation. In addition, the indoor fan will always run a minimum of 10 seconds before the compressor, to help reduce any compressor starting noise.
• **Random Compressor restart** -- To help prevent power surges after a power outage (from many of your PTACs starting at the same time), the compressor is equipped with a 2:45 to 3:15 random restart delay feature. Whenever the unit is plugged in, or power has been restarted, a random compressor restart will occur.
• **Compressor Protection** -- To prevent short cycling of the compressor and maximize it's life, there is a random start-up delay of 3 minutes on the compressor and a minimum compressor run time of 3 minutes.
•**Automatic room freeze protection** – automatically will keep the temperature in the room from getting too cold, where water pipes might freeze. If the unit is configured for the freeze protection feature to be active (which is the default condition), then whenever power is supplied to the unit, if the unit senses temperature below 40°F, the fan motor and electric heater are turned on and will warm the room to 50°F. If Freeze protection is not required, change the configuration switch to turn the feature off (see section on unit configuration).
• **Automatic defrost protection (for heat pump models only) –** When the outdoor temperature gets too cold (approx. 35°F) and the unit can no longer effectively heat with the compressor, the unit will automatically switch to electric heating. The unit will then heat with electric heat until the outside temperature rises enough (approx. 40°F), so the compressor can be used again.
• **Automatic Quick Warm--up (for heat pump models only)** -- If the room temperature falls to 5° below the set point temperature, the reverse cycle heat is shut off and the electric strip heat is turned on for one cycle, until heating is satisfied.
• **LED Indicator's and Buttons** -- The touch pad has buttons for MODE, FANSPEED, ON/OFF, SETPOINT UP and SETPOINT DOWN. It also has LEDs that correspond to the mode, fan speed and setpoint operation, to indicate the unit's status. The LEDs below the mode button, FAN, COOL, and HEAT, indicate what operating mode is active. The LEDs below the Fan button, Low, Med and Hi, indicate the fan speed that is selected. The LED located in the lower right corner is the unit On/Off status LED. If the unit is in ON mode, the LED will be green. If the unit is OFF, the LED will be red.
• **Configure Fan to Optimize Selected Application** -- Unit can be optimized to selected application by configuring the fan to run in continuous mode or cycle on and off with the compressor and electric heater (can be different for both heating and cooling modes). In cycle mode, fan will continue to run after compressor or electric heater stops in order blow off any residual heat or cool left on coil.
• **Unit Configuration** – There are many different configuration possibilities, through both dipswitches and the digital keypad, that allow you to configure the unit for your exact application. See section on unit configuration for more details. Following are the configuration selections that have not previously been mentioned:
• **°F or °C** – The unit can display in either °F or °C
• **Indoor Temperature Sensor Biasing** – Optimize the room temperature sensor reading to your exact application (one for cooling and another for heating).
• **Emergency Heat (for Heat Pump Only)** –Disable the compressor during heating mode operation (heat only with Electric Heat).
• **Display Setpoint OR Room Temperature** -- The unit can be configured to display the room temperature OR setpoint only, during heating and cooling modes. See section on unit configuration for more details.
• **Limit the Setpoint Range** -- The unit can be configured to limit the controlling setpoint range. The display will always show the complete setpoint range, but the controlling setpoint will be limited to the configured minimum and maximum setpoint selected. See section on unit configuration for more details.

• **Energy Management** – Sometimes known as *Front Desk Control,* an input is provided so that the unit can be manually disabled from a different location. If the unit detects 24vac on this input, it will automatically turn itself off. If no voltage is detected on the input, the unit will run normally.
• **Wall Thermostat Control** – A wired wall thermostat can be connected to the unit. If it is, the unit must be configured to disable the keypad. See section on wired inputs and unit configuration for more details.

Fig. 3


APPLIED COMFORT -- CALM Series Model Identification
A42 E C 09 K XX E X A6 0
Applied Comfort CALM Series
Industry Standard 16 x 42"
Air Conditioner with Electric Heat = E
Heat Pump = H
Design // Conception, R410a = C
Nominal Cooling BTUH
// Refroidissement en BTUH nominal
9000 = 09, 12000 = 12, 15000 = 15
230/208 Voltage // Tension = K
277/265 Voltage // Tension = R
Electric Resistance Heat kW // Puissance de chauffage kW
CALM Determined by Separate Power Cord Part Number
E = Electronic Controls // Électronique Contrôles
NEMA Cord Type
CALM Determined by Separate Power Cord Part Number
Compressor:
A1 = Panasonic
A2 = Tecumseh
A3 = Hitachi
A4 = LG
A5 = Matsushita
A6 = Samsung
A7 = Mitsubishi
Bill of Material Variation

4.0 ELECTRICAL DATA

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death and/or property damage
DO NOT alter cord or plug or use an extension cord.

4.1 POWER CONNECTION OPTIONS

Appropriate power cord accessory kit is determined by the voltage, and amperage of the branch circuit. **The unit does not come with a power cord (or hard wire kit).** An accessory power cord kit must be ordered to connect the unit to the outlet. If the unit is to be hard wired, an accessory hard wire kit must be ordered.
IMPORTANT: For 265V units, if power cord accessory option is selected, the cord is only 18" long and must plug into the accessory electrical 265V subbase. Be sure that your outlet matches the appropriate blade configuration of the plug and that it is within reach of the service cord. All wiring, including installation of the receptacle, must be in accordance with the NEC and local codes, ordinances and regulations. National codes require the use of an arc fault or leakage current detection device on all 208/230V power cords. Be sure to select the correct cord for your installation.

4.2 WIRE SIZE

Use recommended wire size given in Table 1 and install a single branch circuit. All wiring must comply with local and national codes. **All units are designed to operate off ONE single branch circuits only. NOTE**: Use copper conductors only.

Table 1—SUGGESTED BRANCH CIRCUIT WIRE SIZES*

NAMEPLATE AMPS	AWG WIRE SIZE†
7.0 to 12	14
12.1 to 16	12
16.1 to 24	10

LEGEND
AWG – American Wire Gauge
* Single circuit from main box.
† Based on copper wire at 60°C temperature rating.

Grounding

For safety and protection, the unit is grounded through the service cord plug or through separate ground wire provided on hard wired units. Be sure that the branch circuit or general purpose outlet is grounded.

4.3 VOLTAGE SUPPLY

Check voltage supply at outlet. For satisfactory results, the voltage range must always be within the ranges found on the data information plate.

Cord--connected Units

The 250V field supplied outlet must match the plug for the standard 208/230V units and be within reach of the service cord. The standard cord-connected 265v units require an accessory electrical subbase for operation. Refer to Table 2 for proper receptacle and fuse type.

Power Cord Protection

The power cord for 230/208V units provide power cord fire protection. Unit power automatically disconnects when unsafe conditions are detected. Power to the unit can be restored by pressing the reset button on plug head. Upon completion of unit installation for 230/208V models, an operational check should be performed using the TEST/RESET buttons on the plug head. **NOTE**: The 265V models do not incorporate this feature as they require use of the electrical subbase accessory.

Table 2—RECEPTACLES AND FUSE TYPES - 250, 265 VOLTS

RECEPTACLE						
AMPS	15	20	30	15	20	30
RATED VOLTS	250	250	250	265	265	265
TIME–DELAY TYPE FUSE (or HACR Circuit Breaker)	15	20*	30	15	20	30

**HACR – May be used for 15Amp applications.*

5.0 INSTALLATION

Proper installation is the responsibility of the installer.
Product failure due to improper installation is not covered under the Warranty.

5.1 CHASSIS INSTALLATION

Units are shipped without a sleeve. In applications where unit is a new installation, it is recommended that an APPLIED COMFORT sleeve be used. These units can retrofit General Electric, Amana, Trane, and Friedrich sleeves/grilles (be sure outdoor grille is installed on the sleeve). See Table 3 for details.

⚠ CAUTION

UNIT DAMAGE AND/OR OPERATION HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

For retrofit applications, foam seals on outdoor coil tube sheets must make a seal between the coil and the grille or loss of performance and premature damage to the major components can result.

Table 3—Retrofit Wall Sleeves

Manufacturer	Wall Sleeve Part Number
General Electric	Metal Sleeve RAB71
	Plastic Sleeve RAB77
Amana	Metal Sleeve WS900B
Trane	Metal Sleeve SLV149
Friedrich	T–Series Metal $11^{1/2}$–in. Deep Wall Sleeve*
	Standard Depth Wall Sleeve 16 X 42 X $13^{3/4}$–in. PXWS

* FR–SLEEVE–EXT accessory is required for retrofit into Friedrich (T–Series) wall sleeves.

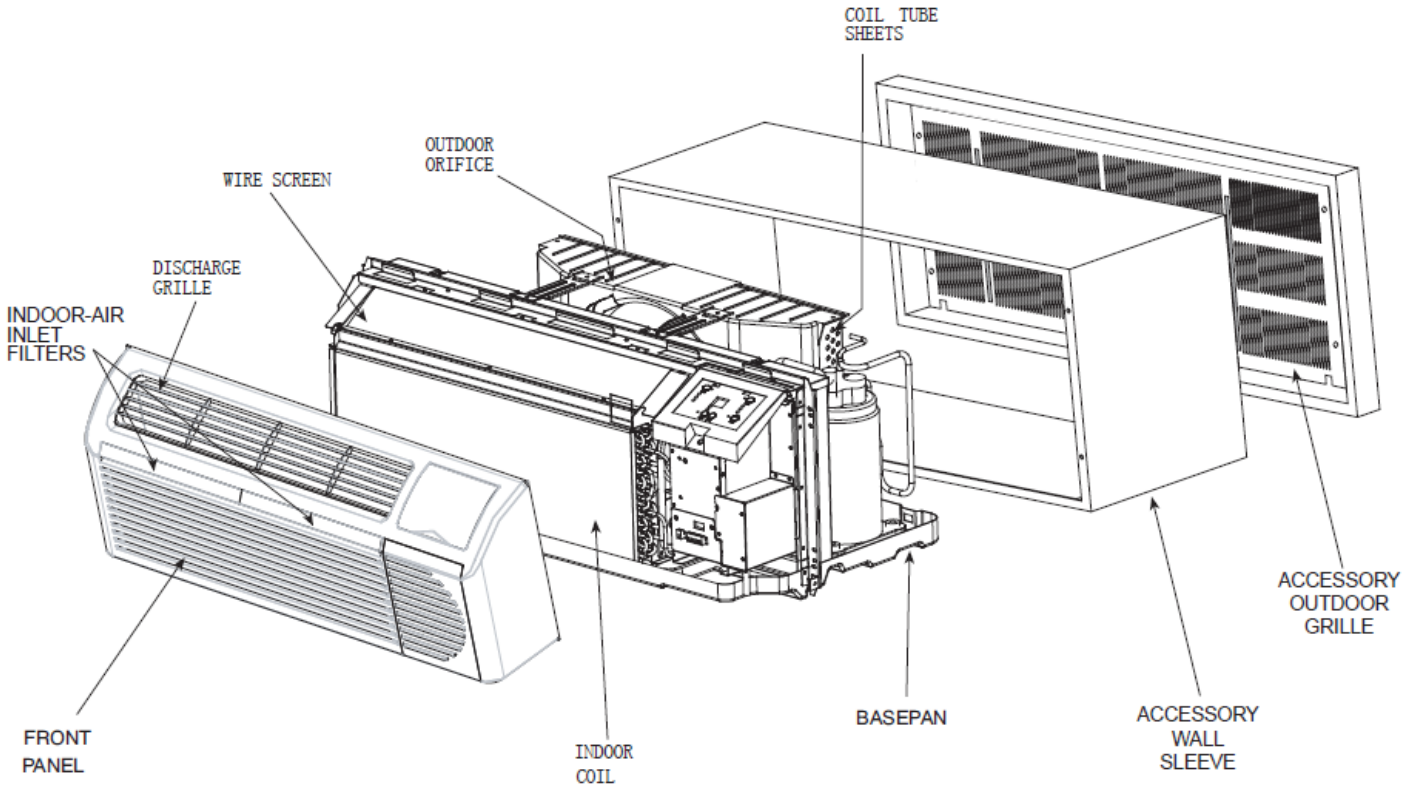


Fig. 4 – Unit Components

5.2 RETROFIT SLEEVE PREPARATION

IMPORTANT: Inspect wall sleeve thoroughly prior to installation. Manufacturer does not assume responsibility for costs or damages due to defects in sleeve or for improper installation.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Disconnect all power to unit to avoid possible electrical shock during installation.

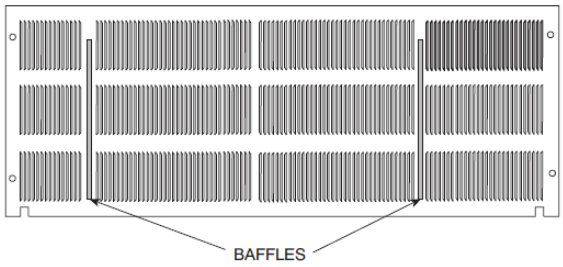


Fig. 5 – Remove Existing Outdoor Grille Baffles on Competitive Grille

Remove any existing foam baffles that are installed on outdoor grille, if present. See Fig. 5.

GE Sleeves Only

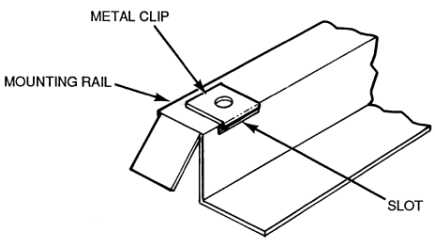


Fig. 6 – Remove Metal Clip on GE Metal Sleeve

GE Metal Wall Sleeve -- Remove metal clip on mounting rail located on left, inside bottom, of metal sleeve and discard. See Fig. 6.

GE Plastic Sleeve -- Remove bottom seal from plastic sleeve. See Fig. 7.

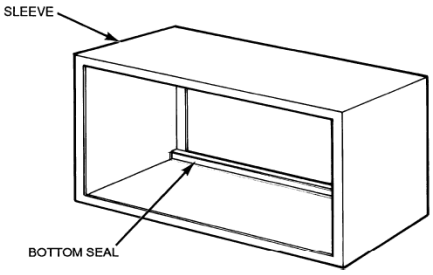


Fig. 7 – Remove Bottom Seal From GE Plastic Sleeve

5.3 INSTALLING UNIT INTO WALL SLEEVE

1. Carefully remove shipping tape from the front panel and vent door. See Fig. 9.
2. Remove shipping screw from the vent door, if present. See Fig. 10.

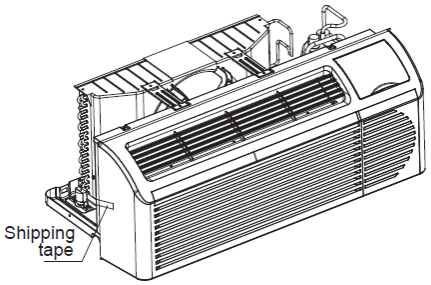


Fig. 9 – Shipping Tape Location

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Failure to remove shipping tape and screw will prevent fresh air vent door from opening and may result in damage to vent door cable

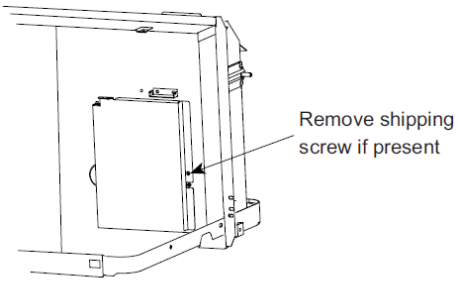
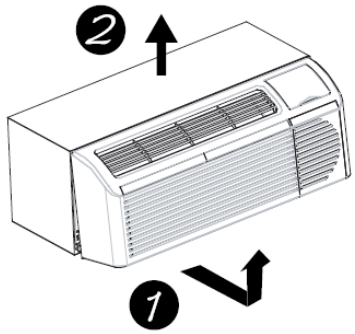


Fig. 10 – Shipping Screw Location

3. Remove front panel. See Fig. 11.
4. Lift unit level and slide unit into wall sleeve until foam seal rests firmly against front of wall sleeve.
5. Secure with four screws (supplied) through the unit flange holes. See Fig. 12.
6. Reinstall front panel. See Fig. 13.



Pull out at the bottom to release it from the tabs (1). Then lift up (2).

Fig. 11 – Removing Front Panel

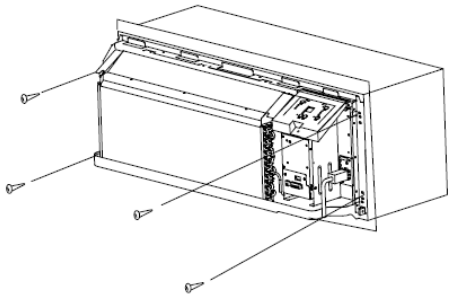
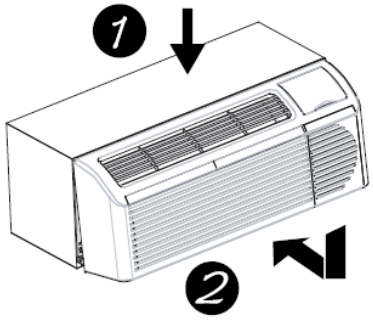


Fig. 12 – Securing Unit



Place tabs over top rail (1). Push Inward at bottom until panel snaps into place (2).

Fig. 13 – Replacing Front Panel

6.0 HOW TO CONNECT

IMPORTANT: Please read following electrical safety data carefully.

⚠ WARNING

ELECTRICAL SHOCK AND/OR UNIT OPERATION AND DAMAGE HAZARD

Failure to follow this warning could result in personal injury or death and/or unit operation and damage.

- Follow the National Electrical Code (NEC) or local codes and ordinances.
- For personal safety, this unit **MUST BE** properly grounded.
- Protective devices (fuses or circuit breakers) acceptable for unit installations are specified on the nameplate of each unit.
- **Do not** use an extension cord with this unit.
- Aluminum building wiring may present special problems - consult a qualified electrician.
- **When unit is in STOP position, there is still voltage to electrical controls.**
- Disconnect power to unit before servicing by:
  1. Removing power cord (if it has one) from wall receptacle.
  2. Removing branch circuit fuses or turning circuit breakers off at panel.

1. Remove front panel. See Fig. 11.
2. Remove junction box. Remove junction box cover by removing three screws from front. Remove junction box by taking out top, rear and side screws. See Fig. 14.
3. Connect accessory power supply cord or hard wire connector to unit connector. See Fig. 15. Units must be installed using the appropriate power supply kit. See Table 4 --POWER CONNECTION CHART. These connections must be followed.
4. Reinstall junction box and cover. Use wire clamp to attach power cord to basepan. Secure with screws (included) See Fig. 16. Replace junction box and cover with screws removed from Step 2. Tighten securely.
5. Replace front panel. See Fig. 13.
6. Connect power to unit.

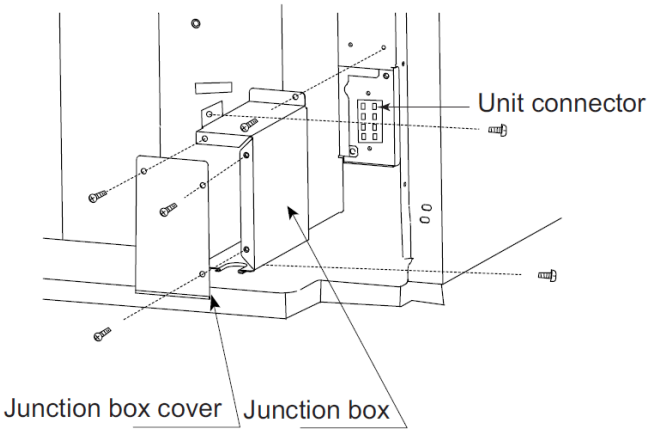


Fig. 14 – Junction Box Location

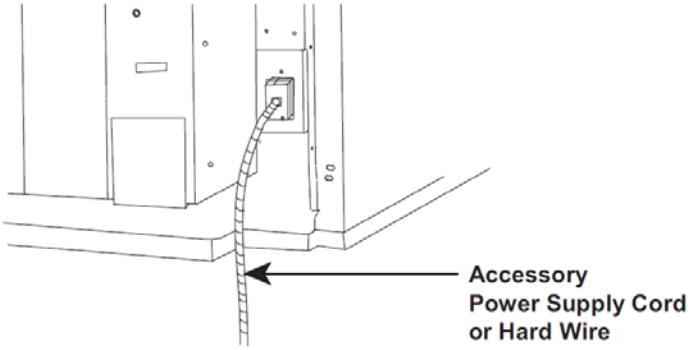


Fig. 15 – Power Connection

Table 4 - POWER CONNECTION CHART

UNIT MODEL	CODE OF POWER SUPPLY KIT		
	30A	20A	15A
	230/208 VOLT		
A42EC07KXXEXA10	*N/A **	A42CORD-20A-230V-A	A42CORD-15A-230V-A
A42HC07KXXEXA10			
A42EC09KXXEXA70			
A42HC09KXXEXA60			
A42EC12KXXEXA60	A42CORD-30A-230V-A		
A42HC12KXXEXA60			
A42EC15KXXEXA10			
A42HC15KXXEXA10			
	265 VOLT		
A42EC07RXXEXA10	*N/A **	A42CORD-20A-265V-A	A42CORD-15A-265V-A
A42HC07RXXEXA10			
A42EC09RXXEXA10			
A42HC09RXXEXA60			
A42EC12RXXEXA60	A42CORD-30A-265V-A		
A42HC12RXXEXA60			
A42EC15RXXEXA10			
A42EC15RXXEXA10			

** Using 30A on these units could result in damage to your unit.*

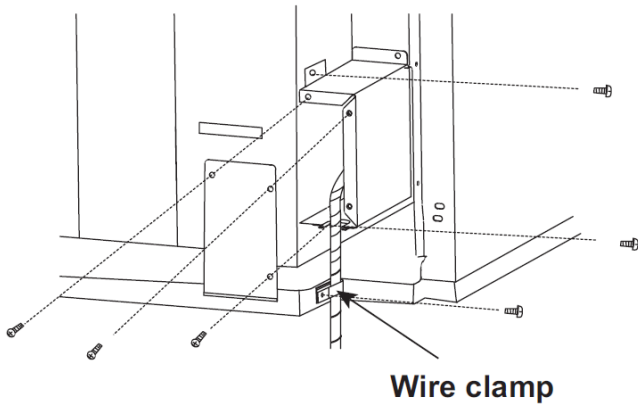


Fig. 16 – Wire Clamp

7.0 SYSTEM CONFIGURATION

7.1 VENTILATION CONTROL

The ventilation control lever is located at left side of unit, behind front panel. **NOTE**: The vent door shipping hardware must be removed before using vent control lever. See Installation Instructions.

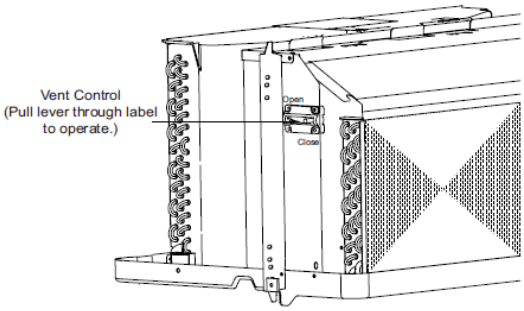


Fig. 17 – Ventilation Control Location

- When set at **CLOSE**, only the air inside the room is circulated and filtered.
- When set at **OPEN**, some outdoor air will be drawn into room. This will reduce heating or cooling efficiency.

***Energy Tip**: Keep the vent control **CLOSED**. Room air will be filtered and circulated.*

7.2 ADJUSTING AIR DIRECTION

To adjust air direction:

1. Remove front panel. See Fig. 11.
2. Remove louver screws that hold louver insert in place (from back side of front panel). See Fig. 18.
3. Turn louver insert and rotate 180°. See Fig. 19.
4. Replace louver insert.
5. Replace screws and front panel.

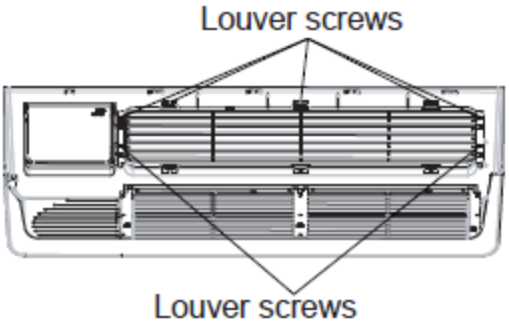


Fig. 18 – Backside of Front Panel

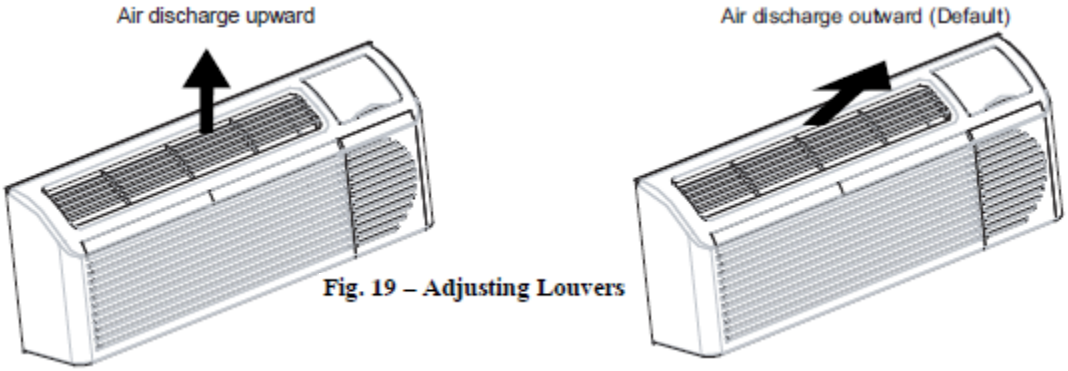


Fig. 19 – Adjusting Louvers

7.3 DIP SWITCHES

Auxiliary dip switch controls are located behind front panel, through an opening below the control panel.
To access, remove front panel. See Fig. 11.
Dip switches are accessible without opening the control box. Unit must be powered **OFF** to effectively change their status.
Factory settings for dip switches will be in the **DOWN** position.
See Table 5 -- *Dip SwitchFunctions* for functions of each dip switch position.

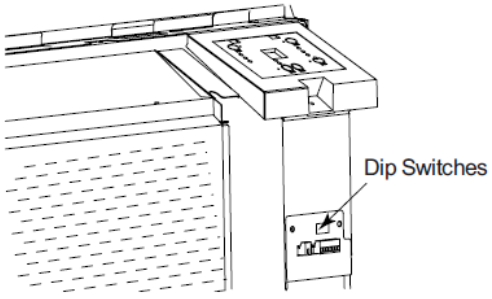


Fig. 20 – Dipswitch Location on Unit

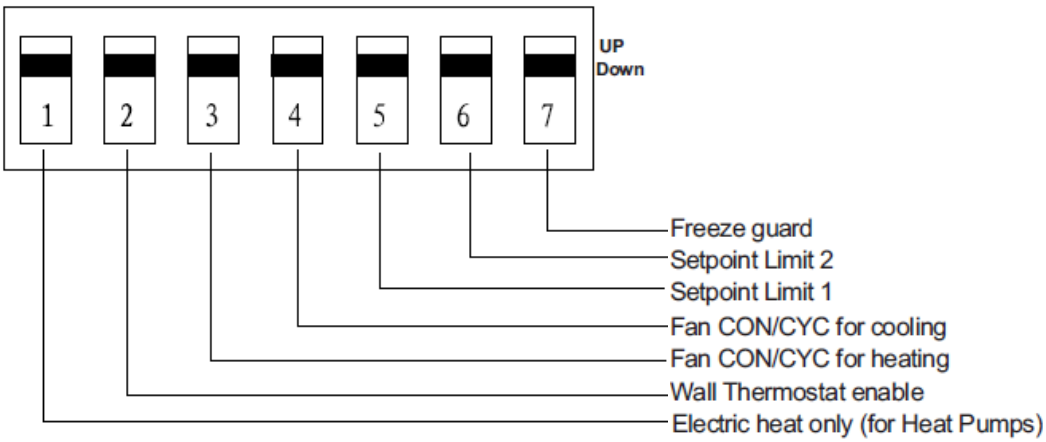


Fig. 21 – Dip Switches

Table 5—DIP SWITCH FUNCTIONS

No,	UP		DOWN		REMARKS	DEFAULT
1	Electric Heat Only		Heat Pump		For Heat Pump unit only.	DOWN
2	Wall Thermostat Enable		Control Panel Enable			DOWN
3	Fan Continuous Run for Heating		Fan Cycle for Heat			DOWN
4	Fan Cycle for Cool		Fan Continuous Run for Cooling			DOWN
5*6	UP*UP 68–75 °F 20–24 °C	UP*DOWN 63–80 °F 18–28 °C	DOWN*UP 65–78 °F 19–26 °C	DOWN*DOWN 61–86 °F 16–30 °C (full range)	Two configurations (5*6) combine to select set point range. When set point limit set, display always shows full range.	DOWN*DOWN 61–86 °F 16–30 °C
7	Freeze Guard Disable		Freeze Guard Enable			DOWN

No.1. Electric Heating Only / Emergency Heat (For Heat Pump Units Only). This setting is typically used for Emergency Heating.

No.2. Wall Thermostat Enable. A wired wall thermostat can be connected to the unit. If it is, this dipswitch must be moved to the Wall Thermostat Enable Position, before the wall thermostat will begin control.

No.3&4. Heat and Cool Fan CON/CYC Dip—switches. Allows the fan to operate in continuous or cycle modes while the unit is in heating or cooling mode (continuous or cycle):

CON (Continuous)
Allows fan to run continuously, circulating air even when the temperature setting has been satisfied. This switch helps to maintain the room temperature closer to the thermostat setting.

CYC (Cycle)
This setting allows the fan to cycle on and off with the compressor or electric heater. The fan stops a short time after the temperature setting is satisfied.

No.5&6. Setpoint Temperature Limits. Provides a restricted range of temperature control.

No.7. Room Freeze Protection. If unit senses a room temperature below 40°F, the fan motor and electric strip heat will turn on and warm the room to 50°F. The fan stops a short time after the temperature is satisfied.

7.4 KEYPAD CONFIGURATION

Keypad Configuration: Allows further configuration of system to desired application. Changes do not take affect until power is cycled on the unit.

To enter Keypad configuration: Cycle power to unit. Press and hold the Fan Speed Button and the COOLER button for 5 continuous seconds, within 30 seconds of the unit being powered up. If the unit has had power for more than 30 continuous seconds, keypad configuration cannot be entered. When keypad configuration mode is first entered, it will default to Fahrenheit/ Celsius Display Mode.

To scroll through the Keypad Configuration Options: Press and release the Fan Speed button. The stored value will be displayed.

To modify configuration settings: Press and release the Setpoint Up or Setpoint Down buttons.

To exit Keypad Configuration: Keypad Configuration will end on its own 30 seconds after the last button press or when the MODE button on the Keypad is pressed.
Fahrenheit/ Celsius Display Switch: Change between degrees Fahrenheit and Celsius on the display. An "F" indicates Fahrenheit display and 'C' indicates Celsius. Default is degrees "F".
Indoor Air Temperature Sensor Biasing for Cooling mode: Sometimes known as an anticipator, the air temperature sensor bias is used to adjust the room air temperature reading when in cooling mode. (Not normally required.)
Indoor Air Temperature Sensor Biasing for Heating mode: Sometimes known as an anticipator, the air temperature sensor bias is used to adjust the room air temperature reading when in heating mode. (Not normally required.)
Indoor Temperature Display: Change between showing setpoint only on the display during heating and cooling modes "SP" or displaying room temperature during heating and cooling modes "AA". "SP" mode is the default mode.

- If "SP" is selected, only the setpoint will be displayed during heating and cooling modes, regardless of what the real temperature is in the room.
- If "AA" mode is selected, the room temperature will be displayed during heating, cooling and fan only modes.
  - If the mode button has been changed to either heating or cooling modes, setpoint will be displayed for 10 seconds. After the 10 seconds, the room temperature will again be displayed.
  - If the on/off button is depressed (when the unit is off) and the last mode was either cooling or heating mode, the setpoint will be displayed for 10 seconds before displaying room temperature.
  - During heating and cooling modes, if either the up or down setpoint key is depressed, the display will show the setpoint until 10 seconds after the last up or down key press. Then the room temperature will be displayed again.

8.0 AUXILIARY CONTROLS

8.1 WALL THERMOSTAT TERMINAL

IMPORTANT: Only trained, qualified personnel should access electrical panel on unit and install electrical accessories. Please contact your local electrical contractor, dealer, or distributor for assistance.

Thermostat Wire Routing

Thermostat wire is field supplied. Recommended wire gauge is 18 to 20 gauge solid thermostat wire. **NOTE**: It is recommended that extra wires are run to unit in case any are damaged during installation. Thermostat wire should always be routed around or under, ***NEVER*** through, the wall sleeve. The wire should then be routed behind the front panel to the easily accessible terminal connector.

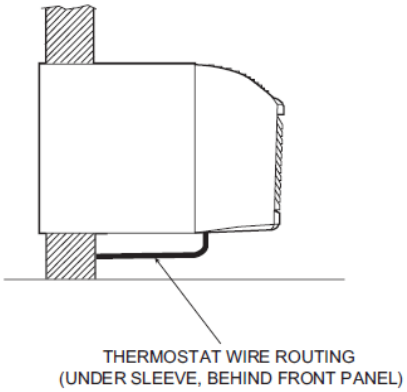


Fig. 22 – Proper Wire Routing Beneath Unit

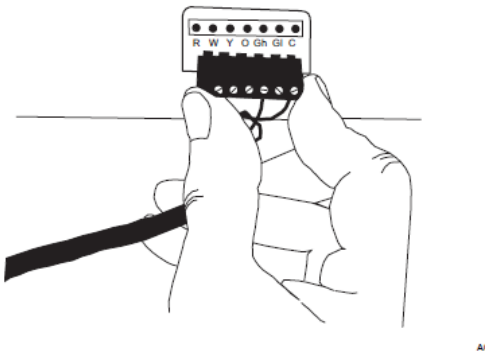


Fig. 23 – Terminal Connector Removal and Replacement

Wiring Thermostat To Unit

Wire wall thermostat input as defined in Fig. 25.
NOTE: Terminal connector can be removed and replaced to simplify the wiring.
NOTE: For heat pump models, anytime there is a second-stage call for heating from the wall thermostat, the unit will automatically switch over to electric heating.

Installing Thermostat Wiring

1. Check to be sure power to unit is disconnected.
2. Pull terminal connector to remove. **NOTE**: Terminal connector can be removed and replaced to simplify thermostat wiring.
3. Connect wires from the thermostat to terminals on unit terminal connector.
4. Reinstall terminal connector.
5. Ensure that unit is configured for wall thermostat enable.
6. Replace control panel label with wall thermostat label (included).
7. Restore power to unit.

NOTE: Refer to thermostat installation instructions for details on installing wall thermostat.
NOTE: For thermostats that have only one fan speed output (on or auto), the fan speed is determined by how the terminal connector is wired. If Low fan is desired, wire the G output from the thermostat to GL on the unit's terminal block. If Hi fan is desired, wire the G output from the thermostat to GH on the unit's terminal block.
NOTE: After proper installation, if your thermostat is not working properly, refer to the *Trouble Shooting* Section.

Terminal Connections

The wall thermostat terminal block is located behind the front panel and is easily accessible on front of control panel.

8.2 ENERGY MANAGEMENT INPUT (FRONT DESK CONTROL)

The controller can handle a switch signal from remote energy management input, called EMsignal or front desk control. Input must be 24VAC. If system receives a 24VAC signal, it will turn unit off; otherwise, the unit runs in normal control. This function will be disabled under Freeze Guard protection. See Fig. 24 and Fig. 25 for terminal connections.

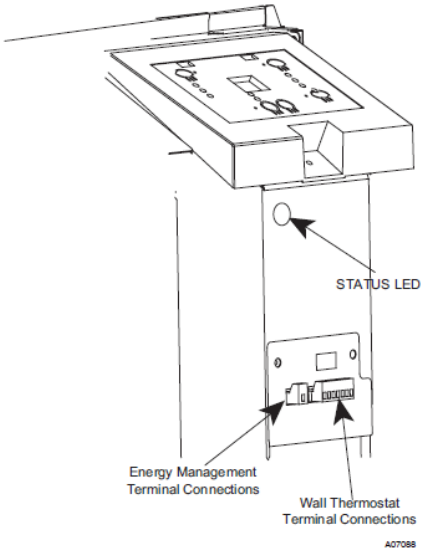


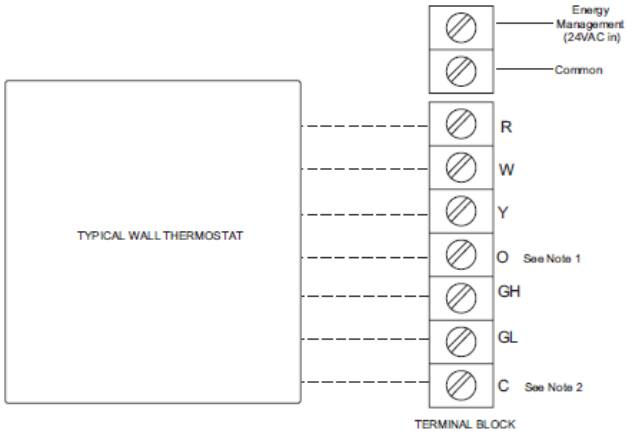
Fig. 24 – Terminal Connector and Status LED Location

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Improper wiring may damage unit electronics. Common busing is not permitted. Damage or erratic operation may result.



NOTES:
1. Use terminal "O" for heat pump connection only.
2. Terminal "C" (common) is typically only required for digital thermostats.

A07076

TERMINAL	DESIGNATION
R	24 VAC
W	Electric Heat
Y	Compressor
O	Reversing Valve
GH	High Fan
GL	Low Fan
C	Common

NOTE: Any illegal input combinations will be captured as thermostat wiring failures and will light the STATUS LED indicator on main board (see *Intelligent Self–Checking Control* section)

Fig. 25 – Wiring Connections

8.3 INTELLIGENT SELF--CHECKING CONTROL

Your APPLIED COMFORT PTAC has a computer board that continuously checks key components of the unit to ensure they are operating properly. Under normal operation, unit status indicator (STATUS, on main PCB), light is steadily ON. If there is a major problem, the unit will shut down and display a diagnostic failure code on the unit's display. If it is only a minor failure and unit is correcting the fault by itself, the diagnostic code will be flashed on the status LED that can easily be seen when the front panel is removed (see Fig. 24). Failure STATUS codes are defined in the table below.

Table 6—STATUS LED Indicator Definitions

1	Indoor air temp sensor open/short	7–segment display '**F1**', **with STATUS light flash 1 time,off 2 seconds**
2	Indoor coil sensor open/short	7–segment display '**F2**', **with STATUS light flash 2 time,off 2 seconds**
3	Outdoor coil sensor open/short	7–segment display '**F4**', **with STATUS light flash 4 time,off 2 seconds**
4	Freeze Guard protection	7–segment display '**FP**'
5	Thermostat wiring error	**STATUS light flash 9 times and off 3 sec, repeat**
6	Indoor coil high temp protection	**STATUS light flash 8 times and off 3 sec, repeat**
7	Defrost (heat pump type)	**STATUS light flash 7 times and off 3 sec, repeat**
8	Outdoor coil high temp protection	**STATUS light flash 6 times and off 3 sec, repeat**
9	Indoor coil freeze protection	**STATUS light flash 5 times and off 3 sec, repeat**

NOTE: When status light is flashing, it will be ON for 0.5 seconds and OFF for another 0.5 seconds.

9.0 OPERATION

IMPORTANT: When unit is first started, high humidity conditions can cause condensation to form on discharge grille. Keep doors and windows closed. Room humidity will decrease and moisture will evaporate.

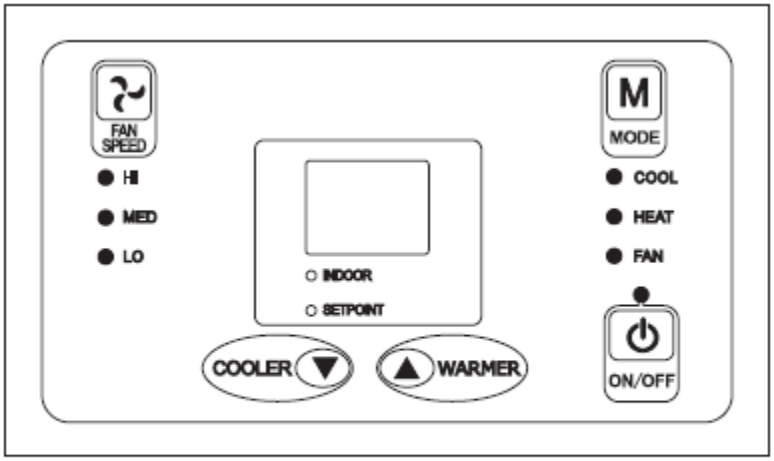


Fig. 26 – PTAC CONTROLS

9.1 ABOUT THE CONTROLS ON YOUR UNIT

NOTE: **In case of a power failure, the unit will remember the last programmed settings and will restart to those settings.**

1. TEMP CONTROL

Temp Control is used to maintain room temperature. Compressor will cycle on and off to keep room at the requested level of comfort.

COOLER -- Lowers temperature. (Minimum temperature setting is 61°F/16°C)

WARMER -- Raises temperature. (Maximum temperature setting is 86°F/30°C)

2. FAN SPEED, MODE & ON/OFF

FAN SPEED -- Set fan operation for **HI**, **MED,** or **LO** speed.
MODE--COOL -- For cooling
MODE--HEAT -- For heating
NOTE: If unit is a heat pump, raising the heat setting 5°F will cause unit to use its electric heating elements for one cycle in order to reach the new requested temperature quickly.
MODE--FAN -- For fan--only operation
ON/OFF -- Turns the unit on or off.
NOTE: The LED above the ON/OFF button will be green when unit is ON and red when the unit is OFF. All other LEDs will be off when unit is set to OFF mode.
NOTE: **Power remains connected to unit.**

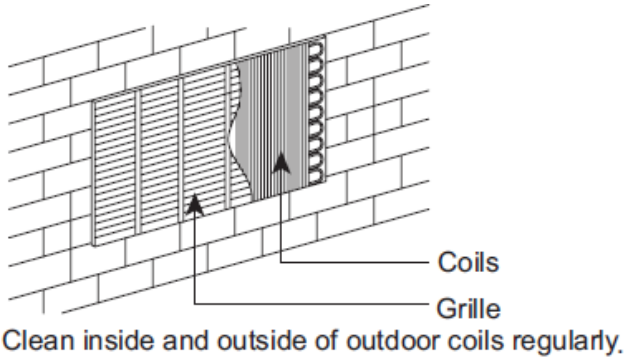
10.0 CARE AND CLEANING

10.1 FRONT PANEL AND CASE

Turn unit off and disconnect power supply. To clean, use water and a mild detergent. **DO NOT** use bleach or abrasives. Some commercial cleaners may damage the plastic parts.

10.2 OUTDOOR COIL

Coil on outdoor side of unit should be checked regularly. Unit will need to be removed to inspect dirt build-up that will occur on the inside of the coil. If clogged with dirt or soot, coil should be professionally cleaned.
NOTE: Never use a high--pressure spray on coil.



Clean inside and outside of outdoor coils regularly.

Fig. 27 – Outdoor Coil

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Airflow restriction may cause damage to the unit.

10.3 BASE PAN

In some installations, dirt or other debris may be blown into unit from outside and settle in base pan (bottom of unit). In some regions, a "jell-like" substance may be seen in the base pan. Check base pan periodically and clean, if necessary.

10.4 AIR FILTERS

IMPORTANT: TURN UNIT OFF BEFORE CLEANING

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.
Do not operate unit without filters in place. If a filter becomes torn or damaged, it should be replaced immediately. Operating without filters in place or with damaged filters will allow dirt and dust to reach indoor coil and reduce cooling, heating, airflow and efficiency of unit. Airflow restriction may cause damage to unit.

The most important thing you can do to maintain unit efficiency is to clean the filters at least every 30 days (or sooner depending on application). Clogged filters reduce cooling, heating and airflow.

Keeping filters clean will:

- Decrease cost of operation.
- Save energy.
- Prevent clogged indoor coil.
- Reduce risk of premature component failure.

To Clean Air Filters:

- Vacuum off heavy soil.
- Run water through filters.
- Dry thoroughly before replacing.

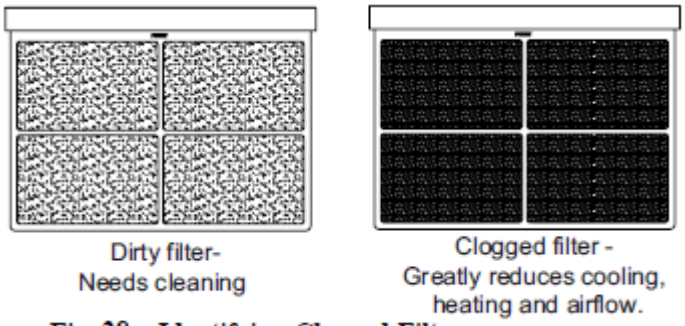


Fig. 28 – Identifying Clogged Filter

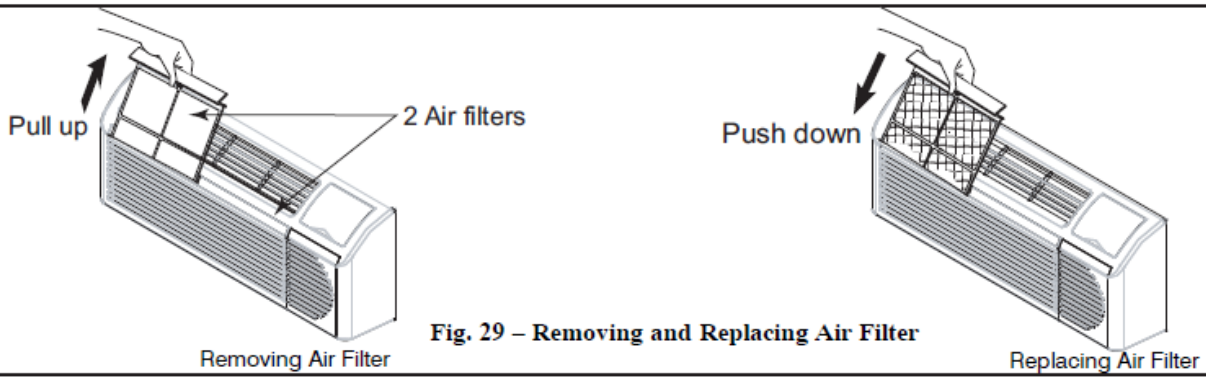


Fig. 29 – Removing and Replacing Air Filter

11.0 PREVENTATIVE MAINTENANCE

Preventative maintenance is essential to proper unit operation, efficiency and longevity. To ensure equipment operates properly, it must be properly maintained. Equipment operation should be checked and verified several times during each year. During regular unit inspection and maintenance, follow the guidelines below:

- Clean both sides of outdoor coil. (Never use high pressure spray on coils.)
- Clean basepan and outdoor vent filter.
- Clean outdoor orifice and fan.
- Clean indoor coil. (Never use high pressure spray on coils.)
- Clean indoor fan, wire screen and front panel.
- Clean or install new indoor--air inlet filter(s).
- Clean wall sleeve and outdoor grille.
- Inspect cord and receptacle.
- Secure electrical connections.
- Ensure front panel is properly mounted and not damaged.
- Ensure wall sleeve is installed properly.
- Ensure heat and cool cycles operate properly.

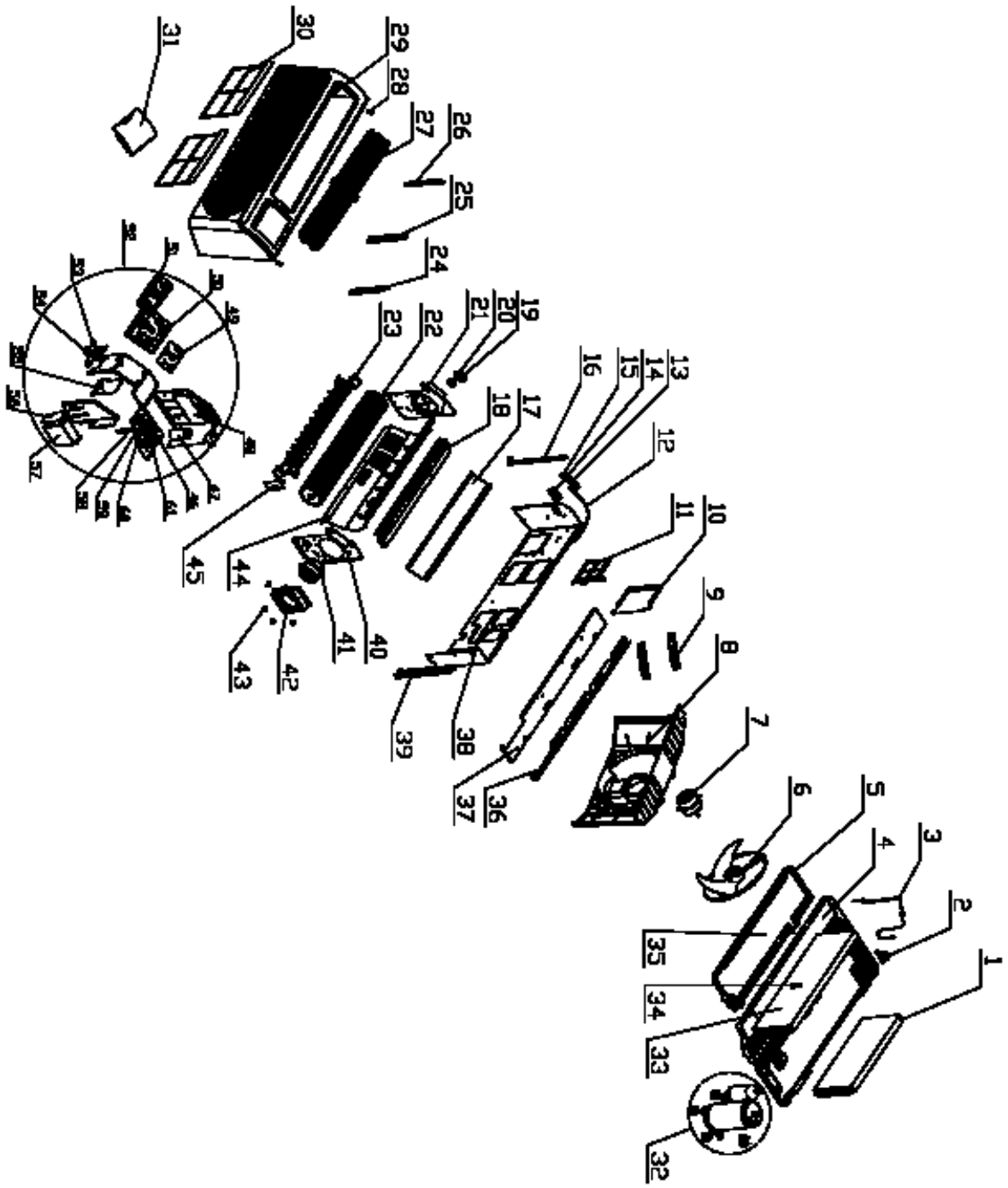
12.0 TROUBLESHOOTING

POSSIBLE CAUSES	SOLUTIONS
UNIT DOES NOT START	
• Unit may have become unplugged • Fuse may have blown • Circuit breaker may have been tripped • Unit may be off or in wall thermostat mode. Check section on dipswitch settings to verify dipswitches are set properly. • Unit may be in a protection or diagnostic failure mode. See section on Intelligent Self–checking Control.	• Check that plug is plugged securely in wall receptacle. **Note** :Plug has a test/reset button on it. Make sure that the plug has not tripped. • Replace the fuse. See Note 1. • Reset circuit breaker. See Note 1. • Turn unit on (bottom right button on keypad). **Note**: If the unit turns on, the LED will be green. If the unit is off, the LED will be red. If there is no LED on, there is a problem with power or damage to the control.
UNIT NOT COOLING/HEATING ROOM	
• Unit air discharge section is blocked • Temperature setting is not high or low enough **Note**: Setpoint limits may not allow the unit to heat or cool the room to the temperature desired. Check section on dipswitch settings. • Unit air filters are dirty. • Room is excessively hot or cold when unit is started. • Vent door left open • Unit may be in a protection or diagnostic failure mode. Check section on Intelligent Self–checking Control. • Compressor is in time delay. There is a protective time delay (approx. 3 minutes) on starting the compressor after a power outage (or restarting after it has been turned off), to prevent tripping of the compressor overload.	• Make sure that curtains, blinds or furniture are not restricting or blocking unit airflow. • Reset to a lower or higher temperature setting. • Remove and clean filters. • Allow sufficient amount of time for unit to heat or cool the room. Start heating or cooling early before outdoor temperature, cooking heat or gatherings of people make room uncomfortable. • Close vent door. • Check dipswitch settings for desired comfort. Wait approximately 3 minutes for compressor to start
DISPLAY HAS STRANGE NUMBERS/CHARACTERS ON IT	• The unit may be in a diagnostic condition. Check Intelligent Self–checking Control section to determine if unit has had a failure. • The unit may be set for °C (instead of °F), see the keypad configuration section
UNIT MAKING NOISES	• Clicking, gurgling and whooshing noises are normal during operation of unit.
WATER DRIPPING OUTSIDE	• If a drain kit has not been installed, condensation runoff during very hot and humid weather is normal. See Note 2. If a drain kit has been installed and is connected to a drain system, check gaskets and fittings around drain for leaks and plugs.
WATER DRIPPING INSIDE • Wall sleeve is not installed level	• Wall sleeve must be installed level for proper drainage of condensation. Check that installation is level and make any necessary adjustments.
ICE OR FROST FORMS ON INDOOR COIL • Low outdoor temperature • Dirty filters	• When outdoor temperature is approximately 55°F or below, frost may form on the indoor coil when unit is in Cooling mode. Switch unit to FAN operation until ice or frost melts. • Remove and clean filters.
COMPRESSOR PROTECTION • Power may have cycled, so compressor is in a restart protection.	• **Random Compressor restart** – Whenever the unit is plugged in, or power has been restarted, a random compressor restart will occur. After a power outage, the compressor will restart after approximately 3 minutes. • **Compressor Protection** – To prevent short cycling of the compressor, there is a random startup delay of 3 minutes and a minimum compressor run time of 3 minutes.

NOTES:
1. If circuit breaker is tripped or fuse is blown more than once, contact a qualified electrician.
2. If unit is installed where condensation drainage could drip in an undesirable location, an accessory drain kit should be installed and connected to drain system.

13.0 PARTS

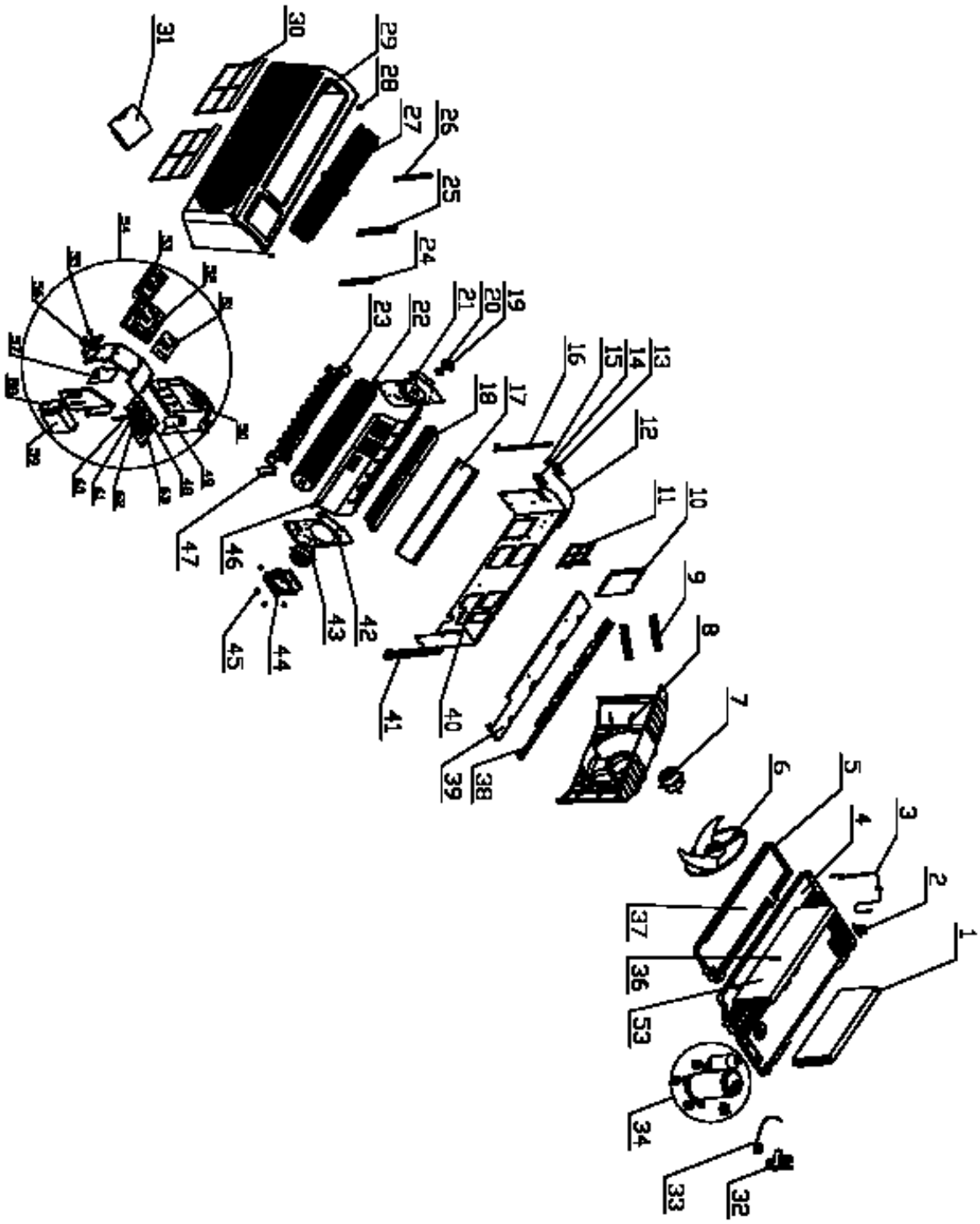
13.1 CALM PTAC PARTS – AIR CONDITIONER



13.1 CALM PTAC PARTS – AIR CONDITIONER

CALM PTAC (see also Heat Pump PTHP)			A42EC07K - XXEXA10	A42EC09K - XXEXA70	A42EC12K - XXEXA60	A42EC15K - XXEXA10	A42EC07R - XXEXA10	A42EC09R - XXEXA10	A42EC12R - XXEXA60	A42EC15R - XXEXA10
NO.	Discription	Qty	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code
1	Condenser Assy	1	'01101272	01101809	'01101809	'01101191	01101272	01101809	01101809	01101191
2	Drainage Valve	1	'07100164	'07100164	'07100164	'07100164	07100164	07100164	07100164	07100164
3	Capillary Sub-Assy	1	'03001424	03001119	'03001139	'03001341	03001424	03001079	03001139	03001341
4	Chassis Sub-assy	1	'0120102601P	'0120102603P	'0120102604P	'01201026P	0120102601P	0120102601P	0120102604P	01201026P
5	Foam (water tray)	1	'12411904	'12411904	'12411904	'12411904	10331004	10331004	10331004	10331004
6	Axial Flow Fan	1	'10331004	'10331004	'10331004	'10331004	'10331005	'10331006	'10331007	'10331008
7	Fan Motor	1	'150110343	'150110343	'15011047	'15011047	150110345	150110345	150110342	150110342
8	Diversion Circle	1	'10371004	'10371004	'10371004	'10371004	10371004	10371004	10371004	10371004
9	Mid-connect board	2	'01381004	'01381004	'01381004	'01381004	01381004	01381004	01381004	01381004
10	Air inlet door Sub-assy	1	'01441008	'01441008	'01441008	'01441008	01441008	01441008	01441008	01441008
11	Filter Sub-Assy	1	'11121213	'11121213	'11121213	'11121213	11121213	11121213	11121213	11121213
12	Door thread	1	'02121014	'02121014	'02121014	'02121014	02121014	02121014	02121014	02121014
13	Upper cover of hand lever	1	'26231154	'26231154	'26231154	'26231154	26231154	26231154	26231154	26231154
14	Lower cover of hand lever	1	'26231155	'26231155	'26231155	'26231155	26231155	26231155	26231155	26231155
15	Hand lever	1	'26231153	'26231153	'26231153	'26231153	26231153	26231153	26231153	26231153
16	Outer support sub-assy (left)	1	'01701015	'01701015	'01701015	'01701015	01701015	01701015	01701015	01701015
17	Rear grill	1	'01471007	'01471007	'01471007	'01471007	01471007	01471007	01471007	01471007
18	Helicoid tongue	1	'02121010P	'02121010P	'02121010P	'02121010P	02121010P	02121010P	02121010P	02121010P
19	Bearing board	1	'02111010	'02111010	'02111010	'02111010	02111010	02111010	02111010	02111010
20	Bearing Holder	1	'26151138	'26151138	'26151138	'26151138	26151138	26151138	26151138	26151138
21	Left side board of duct	1	'02121008P	'02121008P	'02121008P	'02121008P	02121008P	02121008P	02121008P	02121008P
22	Cross Flow Fan	1	'10351002	'10351002	'10351002	'10351002	10351002	10351002	10351002	10351002
23	Electric Heater Tube	1	'3200102602	'3200102602	'32001026	'32001026	3200102603	3200102603	3200102601	3200102601
24	Press board of filter 1	1	'26111139	'26111139	'26111139	'26111139	26111139	26111139	26111139	26111139
25	Press board of filter 2	1	'26111140	'26111140	'26111140	'26111140	26111140	26111140	26111140	26111140
26	Press board of filter 3	1	'26111141	'26111141	'26111141	'26111141	26111141	26111141	26111141	26111141
27	Air Outlet Grille	1	'22411153	'22411153	'22411153	'22411153	22411153	22411153	22411153	22411153
28	Front panel clip	2	`02111013	`02111013	`02111013	`02111013	02111013	02111013	02111013	02111013
29	Front Panel	1	'20001457	'20001457	'20001457	'20001457	20001457	20001457	20001457	20001457
30	Filter	2	'11121212	'11121212	'11121212	'11121212	11121212	11121212	11121212	11121212
31	LCD Cover	1	'20161239	'20161239	'20161239	'20161239	20121070	20121070	20121070	20121070
32	Compressor and fittings	1	'00101061	'00101049	'00101053	'00101085	00101060	00101055	00101054	00101091
33	Evaporator Assy	1	'01001066	'01001060	'01001285	'01001285	01001066	01001043	01001285	01001285
34	Baffle Plate	1	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P
35	Thermal baffle	1	'02121012	'02121012	'02121012	'02121012	02121012	02121012	02121012	02121012
36	Top Cover Plate bracket	1	`01701009	`01701009	`01701009	`01701009	01701009	01701009	01701009	01701009
37	Top Cover Plate Sub-Assy	1	'01251013	'01251013	'01251013	'01251013	01251013	01251013	01251013	01251013
38	Mid-Clapboard	1	'01231041P	'01231041P	'01231041P	'01231041P	01231041P	01231041P	01231041P	01231041P
39	Outer support sub-assy (right)	1	'01701016	'01701016	'01701016	'01701016	01701016	01701016	01701016	01701016
40	Right side board of duct	1	'02121009P	'02121009P	'02121009P	'02121009P	02121009P	02121009P	02121009P	02121009P
41	Fan Motor	1	'1501180202	'15011802	'1501180203	'1501180203	1501180204	1501180201	1501180205	1501180205
42	Motor Support Sub-Assy	1	'01701014P	'01701014P	'01701014P	'01701014P	01701014P	01701014P	01701014P	01701014P
43	Buffer rubber	4	`76711031	`76711031	`76711031	`76711031	76711031	76711031	76711031	76711031
44	Air duct sub-assy	1	'01221012	'01221011	'0144100904	'0144100904	01221013	0122101101	0144100905	0144100905
45	Heater Wiring block board	1	'02111009	'02111009	'02111009	'02111009	02111009	02111009	02111009	02111009
46	Transformer	1	'43110270	'43110270	'43110270	'43110270	43110269	43110269	43110269	43110269
47	Capacitor CBB65	1	'33010045	'33000017	'33000017	'33000045	33010045	33010045	33000017	33000017
48	Main board 1	1	'30032021	'30032021	'30032021	'30032021	30032021	30032021	30032021	30032021
49	Display Board	1	'30542007	'30542007	'30542007	'30542007	30542007	30542007	30542007	30542007
50	Remote Control Cover	1	'20121070	'20121070	'20121070	'20121070	20161239	20161239	20161239	20161239
51	Control panel glue gasket	4	`76711007	`76711007	`76711007	`76711007	76711007	76711007	76711007	76711007
52	Electric Box Assy	1	'01401254	'01401426	'01401428	'01401873	0140125401	01401427	01401429	01401913
53	Wiring terminal	1	'42010037	'42010037	'42010037	'42010037	42010037	42010037	42010037	42010037
54	Wiring terminal	1	'42010039S	'42010039S	'42010039S	'42010039S	42010039S	42010039S	42010039S	42010039S
55	Main board 2	1	'30032022	'30032022	'30032022	'30032022	30032023	30032023	30032023	30032023
56	Junction lid	1	'01251015	'01251015	'01251015	'01251015	01251015	01251015	01251015	01251015
57	Junction box	1	'01411050	'01411050	'01411050	'01411050	01411050	01411050	01411050	01411050
58	Terminal Board	2	'42011103	'42011103	'42011103	'42011103	42011103	42011103	42011103	42011103
59	Power cord	1								
60	Capacitor CBB61	1	'33010089	'33000017	'33010089	'33010089	33010089	33010020	33010020	33010026
61	Capacitor CBB61	1	'33010025	'33010025	'33010026	'33010026	33010020	33010020	33010026	33010020

13.2 CALM PTHP PARTS – HEAT PUMP



13.2 CALM PTHP PARTS – HEAT PUMP

CALM PTHP (see also PTAC)			A42HC07K - XXEXA10	A42HC09K - XXEXA60	A42HC12K - XXEXA60	A42HC15K - XXEXA10	A42HC07R - XXEXA10	A42HC09R - XXEXA60	A42HC12R - XXEXA60	A42HC15R - XXEXA10
NO.	Discription	Qty	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code
1	Condenser Assy	1	'01101272	'01101809	1101809	'01101191	1101272	1101809	1101809	1101191
2	Drainage Valve	1	'07100164	'07100164	'07100164	'07100164	7100164	7100164	7100164	7100164
3	Capillary Sub-Assy	1	'03001424	'03001824	3001139	'03001434	3001424	3001824	3001139	3001366
4	Chassis Sub-assy	1	'0120102601P	'0120102604P	120102604	'01201026P	0120102601P	0120102604P	0120102604P	01201026P
5	Foam (water tray)	1	'12411904	'12411904	'12411904	'12411904	'12411904	'12411904	'12411904	'12411904
6	Axial Flow Fan	1	'10331004	'10331004	'10331004	'10331004	10331004	10331004	10331004	10331004
7	Fan Motor	1	'150110343	'150110343	15011047	'15011048	150110345	150110345	150110342	150110342
8	Diversion Circle	1	'10371004	'10371004	'10371004	'10371004	10371004	10371004	10371004	10371004
9	Mid-connect board	2	'01381004	'01381004	'01381004	'01381004	1381004	1381004	1381004	1381004
10	Air inlet door Sub-assy	1	'01441008	'01441008	'01441008	'01441008	1441008	1441008	1441008	1441008
11	Filter Sub-Assy	1	'11121213	'11121213	'11121213	'11121213	11121213	11121213	11121213	11121213
12	Door thread	1	'02121014	'02121014	'02121014	'02121014	2121014	2121014	2121014	2121014
13	Upper cover of hand lever	1	'26231154	'26231154	'26231154	'26231154	26231154	26231154	26231154	26231154
14	Lower cover of hand lever	1	'26231155	'26231155	'26231155	'26231155	26231155	26231155	26231155	26231155
15	Hand lever	1	'26231153	'26231153	'26231153	'26231153	26231153	26231153	26231153	26231153
16	Outer support sub-assy (left)	1	'01701015	'01701015	'01701015	'01701015	1701015	1701015	1701015	1701015
17	Rear grill	1	'01471007	'01471007	'01471007	'01471007	1471007	1471007	1471007	1471007
18	Helicoid tongue	1	'02121010P	'02121010P	'02121010P	'02121010P	02121010P	02121010P	02121010P	02121010P
19	Bearing board	1	'02111010	'02111010	'02111010	'02111010	2111010	2111010	2111010	2111010
20	Bearing Holder	1	'26151138	'26151138	'26151138	'26151138	26151138	26151138	26151138	26151138
21	Left side board of duct	1	'02121008P	'02121008P	'02121008P	'02121008P	02121008P	02121008P	02121008P	02121008P
22	Cross Flow Fan	1	'10351002	'10351002	'10351002	'10351002	10351002	10351002	10351002	10351002
23	Electric Heater Tube	1	'3200102602	'3200102602	32001026	'32001026	3200102603	3200102603	3200102601	3200102601
24	Press board of filter 1	1	'26111139	'26111139	'26111139	'26111139	26111139	26111139	26111139	26111139
25	Press board of filter 2	1	'26111140	'26111140	'26111140	'26111140	26111140	26111140	26111140	26111140
26	Press board of filter 3	1	'26111141	'26111141	'26111141	'26111141	26111141	26111141	26111141	26111141
27	Air Outlet Grille	1	'22411153	'22411153	'22411153	'22411153	22411153	22411153	22411153	22411153
28	Front panel clip	2	` 02111013	` 02111013	` 02111013	` 02111013	2111013	2111013	2111013	2111013
29	Front Panel	1	'20001457	'20001457	'20001457	'20001457	20001457	20001457	20001457	20001457
30	Filter	2	'11121212	'11121212	'11121212	'11121212	11121212	11121212	11121212	11121212
31	LCD Cover	1	'20161239	'20161239	'20161239	'20161239	20121070	20121070	20121070	20121070
32	4-way Valve Sub-Assy	1	'03021109	'03021109	'03021109	'03021109	3021109	3021505	3021012	3021187
33	Electromagnetic winding	1	4300040042	4300040042	4300040042	4300040042	4300040026	4300040026	4300040026	4300040026
34	Compressor and fittings	1	'00101061	'00101051	101053	'00101085	101060	101052	101054	101091
35	Evaporator Assy	1	'01001066	'01001284	1001285	'01001285	1001066	1001284	1001285	1001285
36	Baffle Plate	1	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P	'01361008P
37	Thermal baffle	1	'02121012	'02121012	'02121012	'02121012	2121012	2121012	2121012	2121012
38	Top Cover Plate bracket	1	` 01701009	` 01701009	` 01701009	` 01701009	1701009	1701009	1701009	1701009
39	Top Cover Plate Sub-Assy	1	'01251013	'01251013	'01251013	'01251013	1251013	1251013	1251013	1251013
40	Mid-Clapboard	1	'01231041P	'01231041P	'01231041P	'01231041P	01231041P	01231041P	01231041P	01231041P
41	Outer support sub-assy (right)	1	'01701016	'01701016	'01701016	'01701016	1701016	1701016	1701016	1701016
42	Right side board of duct	1	'02121009P	'02121009P	'02121009P	'02121009P	02121009P	02121009P	02121009P	02121009P
43	Fan Motor	1	'1501180202	'15011802	1501180203	'1501180203	1501180204	1501180201	1501180205	1501180205
44	Motor Support Sub-Assy	1	'01701014P	'01701014P	'01701014P	'01701014P	01701014P	01701014P	01701014P	01701014P
45	Buffer rubber	4	` 76711031	` 76711031	` 76711031	` 76711031	76711031	76711031	76711031	76711031
46	Air duct sub-assy	1	'01221012	'01221011	144100904	'0144100904	1221013	122101101	144100905	144100905
47	Heater Wiring block board	1	'02111009	'02111009	'02111009	'02111009	2111009	2111009	2111009	2111009
48	Transformer	1	'43110270	'43110270	'43110270	'43110270	43110269	43110269	43110269	43110269
49	Capacitor CBB65	1	'33010045	'33000017	33000017	'33000045	33010045	33010045	33000017	33000017
50	Main board 1	1	'30032021	'30032020	30032020	'30032020	30032020	30032020	30032020	30032020
51	Display Board	1	'30542007	'30542007	'30542007	'30542007	30542007	30542007	30542007	30542007
52	Remote Control Cover	1	'20121070	'20121070	'20121070	'20121070	20161239	20161239	20161239	20161239
53	Control panel glue gasket	4	` 76711007	` 76711007	` 76711007	` 76711007	76711007	76711007	76711007	76711007
54	Electric Box Assy	1	'01401254	'01401333	1401430	'01401899	140125501	1401332	1401431	1401914
55	Wiring terminal	1	'42010037	'42010037	'42010037	'42010037	42010037	42010037	42010037	42010037
56	Wiring terminal	1	'42010039S	'42010039S	'42010039S	'42010039S	42010039S	42010039S	42010039S	42010039S
57	Main board 2	1	'30032022	'30032022	'30032022	'30032022	30032023	30032023	30032023	30032023
58	Junction lid	1	'01251015	'01251015	'01251015	'01251015	1251015	1251015	1251015	1251015
59	Junction box	1	'01411050	'01411050	'01411050	'01411050	1411050	1411050	1411050	1411050
60	Terminal Board	2	'42011103	'42011103	'42011103	'42011103	42011103	42011103	42011103	42011103
61	Power cord	1								
62	Capacitor CBB61	1	'33010089	'33010020	33010089	'33010089	33010089	33010020	33010020	33010020
63	Capacitor CBB61	1	'33010025	'33010025	33010026	'33010026	33010020	33010020	33010026	33010026

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